

UMITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/590,761	08/24/2006	Harukazu Kitagawa	58270/A400	7304
23363 7590 08/10/2007 CHRISTIE, PARKER & HALE, LLP PO BOX 7068			EXAMINER	
			EPPS FORD, JANET L	
PASADENA, CA 91109-7068			ART UNIT	PAPER NUMBER
		1633	1633	
			MAIL DATE	DELIVERY MODE
			08/10/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/590,761	KITAGAWA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Janet L. Epps-Ford	1633			
The MAILING DATE of this communication	• •	1			
Period for Reply					
A SHORTENED STATUTORY PERIOD FOR RI WHICHEVER IS LONGER, FROM THE MAILIN - Extensions of time may be available under the provisions of 37 CI after SIX (6) MONTHS from the mailing date of this communicatio - If NO period for reply is specified above, the maximum statutory p - Failure to reply within the set or extended period for reply will, by s Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNION (FR 1.136(a). In no event, however, may a rent of the control of the co	CATION. reply be timely filed ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 2	24 August 2006.	•			
_					
3) Since this application is in condition for all					
closed in accordance with the practice und	der <i>Ex parte Quayle</i> , 1935 C.D). 11, 453 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) 1,4,6 and 8 is/are pending in the	application.				
4a) Of the above claim(s) is/are with	ndrawn from consideration.	•			
5) Claim(s) is/are allowed.		•			
6) Claim(s) <u>1,4,6 and 8</u> is/are rejected.					
7) Claim(s) is/are objected to.	•				
8) Claim(s) are subject to restriction a	nd/or election requirement.				
Application Papers					
9) The specification is objected to by the Exa	miner				
10) The drawing(s) filed on is/are: a)		by the Examiner.			
Applicant may not request that any objection to					
Replacement drawing sheet(s) including the co	prrection is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).			
11)☐ The oath or declaration is objected to by th	e Examiner. Note the attached	d Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for for	eign priority under 35 U.S.C. 8	\$ 119(a)-(d) or (f)			
a)⊠ All b)□ Some * c)□ None of:	organ priority united to orone. S	, 1.0(a) (a) 3. (i).			
1. Certified copies of the priority docur	ments have been received.				
2. Certified copies of the priority docur	nents have been received in A	pplication No			
3. Copies of the certified copies of the	priority documents have been	received in this National Stage			
application from the International Bu	` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `				
* See the attached detailed Office action for a	a list of the certified copies not	received.			
		•			
Attachment(s)					
1) Notice of References Cited (PTO-892)		Summary (PTO-413)			
 Notice of Draftsperson's Patent Drawing Review (PTO-948 Information Disclosure Statement(s) (PTO/SB/08) 		s)/Mail Date nformal Patent Application			
Paper No(s)/Mail Date	6) Other:	·			

DETAILED ACTION

1. Claims 1, 4, 6 and 8 are presently pending for examination.

Priority

2. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Specification

3. This application contains sequence disclosures that are encompassed by the definitions for nucleotide and/or amino acid sequences set forth in 37 CFR 1.821(a)(1) and (a)(2). However, this application fails to comply with the requirements of 37 CFR 1.821 through 1.825 for the reason(s) set forth on the attached Notice To Comply With Requirements For Patent Applications Containing Nucleotide Sequence And/Or Amino Acid Sequence Disclosures. There is an unbranched nucleotide sequence on page 2 of the specification as filed that was not included on the sequence listing. Additionally, there are multiple sequences on pages 4-5, and 26-27 that are not included in the sequence listing.

A complete response to this Office Action requires that Applicants comply with the sequence rules, and that pending rejections be addressed. Any response that does not address all of these issues will be held as non-responsive. Direct the reply to the undersigned. Applicant is requested to return a copy of the attached Notice to Comply with the reply.

Application/Control Number: 10/590,761

Art Unit: 1633

Page 3

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1, 4, 6 and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Bachmann et al. (US2003091593 A1; entire document).

The instant claims recite the following:

- 4. A pharmaceutical formulation comprising as an active ingredient an immunostimulatory oligonucleotide comprising the base sequence: GGGGGGGGGAC GATCGTCG (SEQ ID NO: 7).
- 6. A pharmaceutical formulation comprising as an active ingredient an immunostimulatory oligonucleotide comprising the base sequence GGGGGGGGGACGATCGTCG (SEQ ID NO: 7), and further comprising an immunomodulating factor.
- 8. A pharmaceutical formulation according to claim 6 wherein said immunomodulating factor is one of either an antigen or an adjuvant.

Bachmann et al. discloses a formulation comprising the immunostimulatory nucleic acid G10pt mixed with VLP (virus like particles) fusion protein or VLP coupled with antigen, wherein said formulation induces a potent antigen specific CTL response

Art Unit: 1633

and virus protection, see Figure 16, and paragraph [0055]. See also Example 12, paragraph [0341]. Example 15 describes a combination of G10pt and antigen, paragraph [0352]. The immunostimulatory nucleic acid of Bachman et al. comprises SEQ ID NO: 7 of the instant application, see the sequence below:

G10pt:

gGGGGGGGGACGATCGTCGgggggggggg

SEQ ID NO: 7: GGGGGGGGGGGACGATCGTCG

Bachman et al. teaches all the limitations of the instant claims, and therefore anticipates the claimed invention.

- 6. Claims 1, 4, 6, and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Bachmann et al. (2003/0099668 A1; entire document).
- 7. Bachmann et al. discloses the following immunostimulatory nucleic acid molecules, which comprise SEQ ID NO: 7 of the instant application, namely nucleic acids G10-PO and G10-PS (see page 35, Table I):

GGGGGGGGGGACGATCGTCGGGGGGGGGG <u> Toeson and species con long and species are species are species and species are species are species and species are species </u>

Example 20 of Bachmann et al. describes a vaccine formulation (see Example 20) comprising a virus like particle containing Hepatitis B virus core capsid proteins, and the G10-PS immunostimulatory nucleic acid, see Figure 50 and paragraph [0486]. This composition observed that this formulation did induce CTL responses capable of completely inhibition viral infection.

Application/Control Number: 10/590,761

Art Unit: 1633

8. Claims 1, 4, 6 and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Takauji et al. (2002).

Page 5

Takauji et al. discloses the administration of the oligonucleotide g10gacga, see page 1012, Materials and Methods §. This oligonucleotide comprises SEQ ID NO: 7 of the instant application. This reference also describes the treatment of dendritic precursor cells with g10gacga oligonucleotides and anti-IFN-a/b antibodies. Takauji et al. teach each and every aspect of the instant invention therefore anticipating the claimed invention.

Art Unit: 1633

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Janet L. Epps-Ford whose telephone number is 571-272-0757. The examiner can normally be reached on M-F, 10:00 AM through 6:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Woitach can be reached on 571-272-0739. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

> /Janet L. Epps-Ford/ **Primary Examiner** Art Unit 1633

JLE